

# CURRENT AGRICULTURAL INDUSTRIAL REPORTS

**USDA Agricultural Outlook Forum**

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Demographics Branch**

# Objectives

- Discuss the history of the Current Industrial Reports (CIR)
- Discuss NASS Current Agricultural Industrial Reports (CAIR)
- Grain Crashings and Co-products Production Publication
- Update on the other CAIR programs

# History of U.S. Census Bureau's Current Industrial Reports (CIR)

- Conducted by U.S. Census Bureau from 1904-2011
- Purpose was to provide regular estimates of production, shipments, inventories, and consumption of specific manufacturing products

# History of U.S. Census Bureau's Current Industrial Reports (CIR) (cont'd)

- 125 CIR surveys which covered commodity areas as diverse as textiles, apparels, chemicals, electronic components.
- Reduced to 47 surveys, which covered 40,000 establishments and 1/3 of the total manufactured products produced in the U.S.
- Terminated by the Census Bureau in 2011 to secure funding for new programs.

# NASS's Current Agricultural Industrial Reports (CAIR)

- Congress mandated and appropriated funds for NASS to reinstate industrial surveys relating to agricultural sectors in 2014.
- Why? Vital to a variety of agricultural stakeholders for planning and decision making.

# Current Agricultural Industrial Reports

- Sectors Covered
  - Grain Crashings and Co-products Production
    - Dry and Wet Mill
  - Flour Milling
  - Cotton Spinning
  - Fats and Oils
  - Oilseed Crashings
- Fact-based reports on production, consumption, and stocks.

# Usage of CAIR

- Data users include but not limited to:
  - **United States Bureau of Economic Analysis-** to prepare quarterly estimates of Gross National Product.
  - **United States Department of Agriculture-** to provide regular estimates of production, shipments, inventories, and consumption of specific manufacturing products.
  - **United States Bureau of Labor and Statistics-** to develop price indexes and estimates of productivity.

# Usage of CAIR (cont'd)

- **Federal Reserve Board-** to prepare monthly indexes of industrial production.
- **International Trade Administration-** to monitor the effects of international trade on domestic production and meet responsibilities under the Trade Act, assess production trends, and forecast future industrial activity.
- **Private Industry-** to monitor the effects of international trade on domestic production, evaluate relationship between company and industry performances, conduct market analyses, assess current business conditions, and plan future operations.



# Grain Crashings and Co-products Production Publication

# Dry and Wet Mill Producers Survey Program Changes

- Formerly part of the Crashings Report (Corn)
- Added wheat and sorghum inputs
- Added co-products produced
  - CO<sub>2</sub> captured
  - Differentiate corn oil between edible and non-edible
  - High fructose corn syrup
  - Starch, glucose and dextrose

# Outreach Efforts

- NASS built and will maintain a list of all known ethanol mills.
- An operation profile was completed for each facility to determine the presence of dry and/or wet ethanol milling during 2014.
  - collected for the nameplate production capacity
  - documented the manner in which the mill(s) will report
  - the headquarters can report for all milling locations or each location can report separately
- Primary and secondary contacts were established for the actual Dry and Wet Mill Producers surveys.

# Dry and Wet Mill Facilities

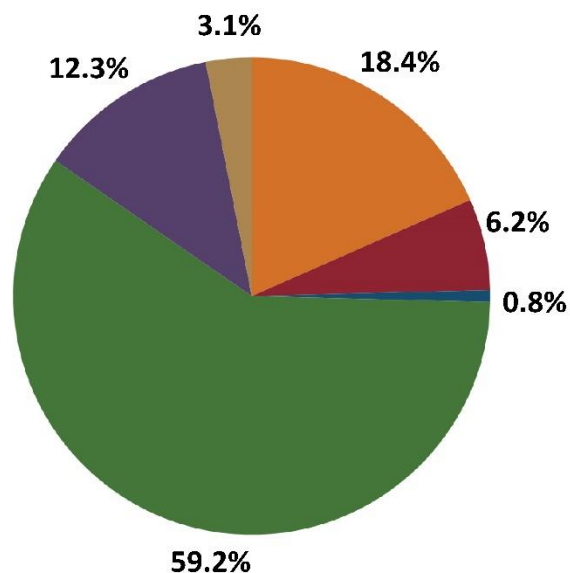
- All operations on the list which will produce ethanol will be selected for the monthly Dry and Wet Mill Producers Survey.
  - Grains used as feedstock
  - Products produced
  - Co-products produced
- Cellulosic ethanol facilities (woodchips, stover, etc.) are not included.

# 2014 Data Collection

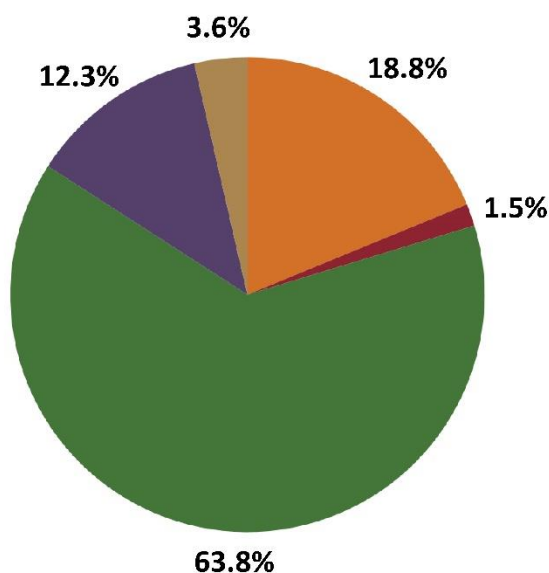
- NASS mailed 147 questionnaires for the Dry and Wet Mill Facilities.
  - 136 Dry
  - 11 Wet

# Mode of Data Collection

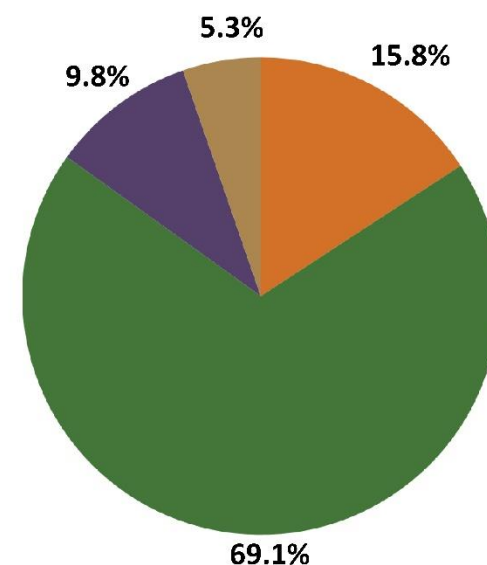
October, 2014



November, 2014



December, 2014

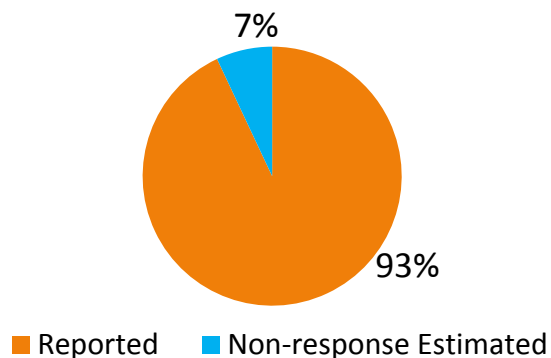


10% increase in web reporting from October to December.

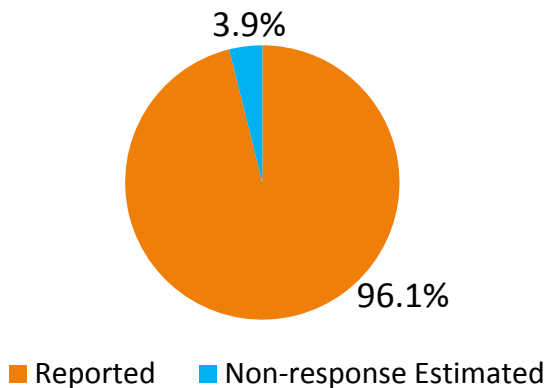
■ Mail 
 ■ Telephone 
 ■ Face-to-Face 
 ■ Web survey 
 ■ Email 
 ■ Fax

# Coverage of Nameplate Capacity

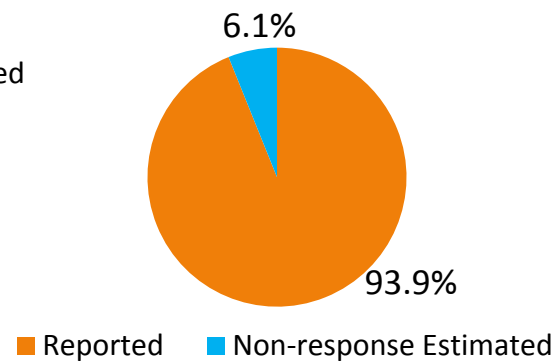
**October, 2014**



**November, 2014**



**December, 2014**





# Dry Mill Producers Survey

| 1. Feedstock used in this mill                         | Unit of measure     |
|--|---------------------|
| a. Total <b>Corn</b> used to produce alcohol           | 1,000 Bushels       |
| (i) Corn used to produce <b>beverage</b> alcohol       | 1,000 Bushels       |
| (ii) Corn used to produce <b>industrial</b> alcohol    | 1,000 Bushels       |
| (iii) Corn used to produce <b>fuel</b> alcohol         | 1,000 Bushels       |
| b. Total <b>Sorghum</b> used to produce alcohol        | 1,000 Hundredweight |
| (i) Sorghum used to produce <b>beverage</b> alcohol    | 1,000 Hundredweight |
| (ii) Sorghum used to produce <b>industrial</b> alcohol | 1,000 Hundredweight |
| (iii) Sorghum used to produce <b>fuel</b> alcohol      | 1,000 Hundredweight |
| c. Total <b>Wheat</b> used to produce alcohol          | 1,000 Bushels       |
| (i) Wheat used to produce <b>beverage</b> alcohol      | 1,000 Bushels       |
| (ii) Wheat used to produce <b>industrial</b> alcohol   | 1,000 Bushels       |
| (iii) Wheat used to produce <b>fuel</b> alcohol        | 1,000 Bushels       |





# Dry Mill Producers Survey (cont'd)

| 1. Feedstock used in this mill  | Unit of measure |
|---|-----------------|
| d. Other <b>feedstock</b> or <b>blend</b> of feedstock used to produce alcohol ( Specify: _____ ) | 1,000 Bushels   |
| (i) Other feedstock used to produce <b>beverage</b> alcohol                                       | 1,000 Bushels   |
| (ii) Other feedstock used to produce <b>industrial</b> alcohol                                    | 1,000 Bushels   |
| (iii) Other feedstock used to produce <b>fuel</b> alcohol   | 1,000 Bushels   |
| 2. <b>Co-products produced – including moisture</b>   |                 |
| a. Distillers wet grain (DWG) 65% or more moisture  | Tons            |
| b. Modified distillers wet grain (DWG) 40% to 64% moisture  | Tons            |
| c. Distillers dried grains with solubles (DDGS)   | Tons            |
| d. Distillers dried grains (DDG)  | Tons            |
| e. Condensed distillers solubles (CDS -- syrup)   | Tons            |
| f. Corn oil   | Tons            |
| g. CO - 2 (captured for industrial use)   | Pounds          |
| h. Other co-products ( Specify _____ )  | Tons            |



# Wet Mill Producers Survey

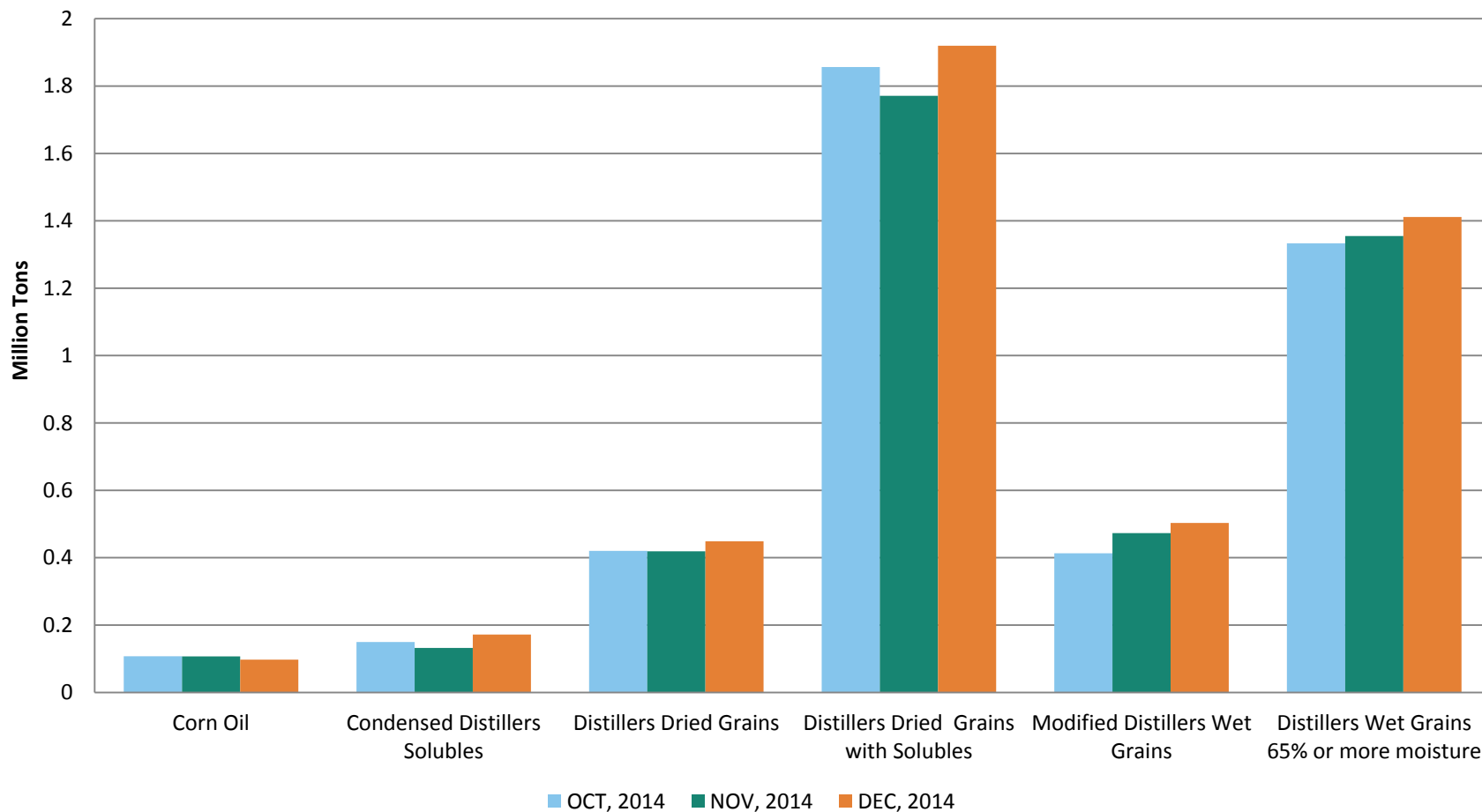
| 1. Feedstock used in this mill   | Unit of measure |
|--|-----------------|
| a. Total <b>Corn</b> used to produce alcohol or other products                   | 1,000 Bushels   |
| (i) Corn used to produce <b>beverage</b> alcohol                                 | 1,000 Bushels   |
| (ii) Corn used to produce <b>industrial</b> alcohol                              | 1,000 Bushels   |
| (iii) Corn used to produce <b>fuel</b> alcohol                                   | 1,000 Bushels   |
| (iv) Corn used to produce <b>other products</b>                                  | 1,000 Bushels   |
| b. Other <b>feedstock</b> or <b>blend</b> of feedstock used<br>( Specify:_____ ) | 1,000 Bushels   |
| (i) Other feedstock used to produce <b>beverage</b> alcohol                      | 1,000 Bushels   |
| (ii) Other feedstock used to produce <b>industrial</b> alcohol                   | 1,000 Bushels   |
| (iii) Other feedstock used to produce <b>fuel</b> alcohol                        | 1,000 Bushels   |
| (iv) Other feedstock used to produce <b>other products</b>                       | 1.000 Bushels   |

# Wet Mill Producers Survey

| 2. Wet mill products produced                | Unit of measure |
|--|-----------------|
| a. Corn oil                                  | Tons            |
| b. High Fructose Corn Syrup 42%              | Tons            |
| c. High Fructose Corn Syrup 55%              | Tons            |
| d. Glucose & Dextrose                        | Tons            |
| e. Starch                                    | Tons            |
| 3. Co-products produced – including moisture |                 |
| a. Corn gluten meal                          | Tons            |
| b. Corn gluten feed                          | Tons            |
| c. Wet corn gluten feed 40% to 60% moisture  | Tons            |
| d. Corn germ meal                            | Tons            |
| e. Steep water (liquor)                      | Tons            |
| f. CO - 2 (captured for industrial use)      | Pounds          |
| g. Other co-products (Specify:_____)         | Tons            |

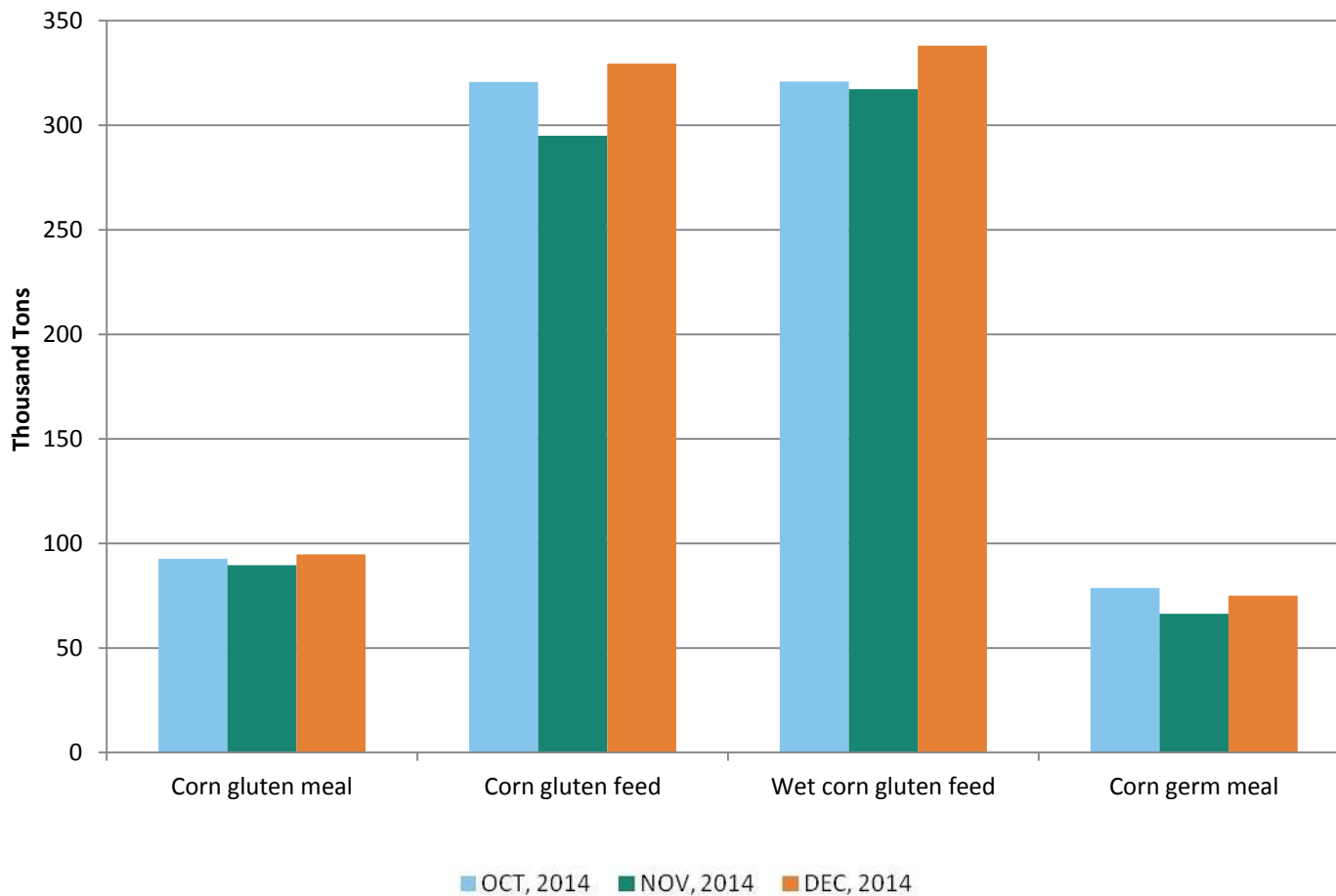
# Results

## Dry Mill Co-products Production



# Results

## Wet Mill Co-products Production



# Dry and Wet Mill Corn Consumed

| Purpose                                 | October 2014<br>(1,000 bu) | November 2014<br>(1,000 bu) | December 2014<br>(1,000 bu) |
|---|----------------------------|-----------------------------|-----------------------------|
| Consumed for alcohol production         |                            |                             |                             |
| Beverage alcohol                        | 4,200                      | 2,975                       | 2,364                       |
| Fuel alcohol                            | 427,347                    | 433,939                     | 455,956                     |
| Dry mill                                | 381,881                    | 388,410                     | 406,684                     |
| Wet mill                                | 45,466                     | 45,529                      | 49,272                      |
| Industrial alcohol                      | 5,664                      | 6,293                       | 6,953                       |
| Total                                   | 437,211                    | 443,207                     | 465,273                     |
| Consumed for other purposes             |                            |                             |                             |
| Total wet mill products other than fuel | 39,384                     | 41,855                      | 44,866                      |

# Dry Mill Sorghum Consumed

| Purpose                                | October 2014<br>(1,000 cwt) | November 2014<br>(1,000 cwt) | December 2014<br>(1,000 cwt) |
|--|-----------------------------|------------------------------|------------------------------|
| <b>Consumed for alcohol production</b> |                             |                              |                              |
| Fuel alcohol                           | 1,900                       | 2,070                        | 889                          |

# Dry and Wet Mill Co-products and Products Produced

| Co-products and products                                 | October 2014<br>(tons) | November 2014<br>(tons) | December 2014<br>(tons) |
|--|------------------------|-------------------------|-------------------------|
| <b>Dry mill</b>  |                        |                         |                         |
| Condensed distillers solubles (CDS-syrup)                | 149,960                | 132,236                 | 172,082                 |
| Corn oil   | 107,516                | 107,190                 | 97,380                  |
| Distillers dried grains (DDG)                            | 420,226                | 419,028                 | 448,551                 |
| Distillers dried grains with solubles (DDGS)             | 1,856,472              | 1,770,904               | 1,919,823               |
| Distillers wet grains (DWG) 65% or more moisture         | 1,333,264              | 1,354,729               | 1,411,411               |
| Modified distillers wet grains (DWG) 40% to 60% moisture | 413,040                | 472,819                 | 503,258                 |
| <b>Total</b>   | <b>4,280,478</b>       | <b>4,256,906</b>        | <b>4,552,505</b>        |



# Dry and Wet Mill Co-products and Products Produced

| Co-products and products                 | October 2014<br>(tons) | November 2014<br>(tons) | December 2014<br>(tons) |
|--|------------------------|-------------------------|-------------------------|
| <b>Wet mill</b>                          |                        |                         |                         |
| Corn germ meal                           | 78,674                 | 66,384                  | 75,031                  |
| Corn gluten feed                         | 320,692                | 295,030                 | 329,431                 |
| Corn gluten meal                         | 92,665                 | 89,593                  | 94,777                  |
| Corn oil                                 | 47,405                 | 40,980                  | 44,551                  |
| Wet corn gluten feed 40% to 60% moisture | 320,919                | 317,273                 | 338,077                 |
| Total                                    | 860,355                | 809,260                 | 881,867                 |
| <b>Dry and wet mill</b>                  |                        |                         |                         |
| Carbon dioxide captured                  | 240,056                | 205,305                 | 217,311                 |

# Survey Timeline and Report Releases

- Monthly-Grain Crashings and Co-products Production
  - Published the first working day of each month
    - January data will be published on March 2nd
  - 3:00pm EST

# Survey Timeline and Report Releases

- Monthly report
  - Each report will have a preliminary and current estimate
  - March release includes December final data and preliminary January data
  - Final data includes late reports from previously published release
  
- Annual Summary
  - Will be published in March 2016
  - Includes late reports to final data and any major revisions to previously reported data.

# Upcoming Surveys: Flour

- Flour Milling Products – Quarterly
- Operation Profiles data published September 29, 2014
- Third Quarter (July- September) and Fourth Quarter (October – December) are being collected and analyzed now.
- Publication date: May 1, 2015
  - Third Quarter 2014, Fourth Quarter 2014, First Quarter 2015
  - Wheat and rye milled for flour, flour production, and mill feed production
  - Regional totals

# Upcoming Surveys: Cotton

- Cotton System – Monthly
- Surveying Cotton Spinners
- December 2014 and January 2015 are being collected now
- Publication date: May 1, 2015
  - Cotton consumed
  - Stocks on hand – last Saturday of Month
  - Active spindle counts and hours operated

# Upcoming Surveys: Fats and Oils

- Fats and Oils – Monthly
- Surveying
  - Oilseed Crushers
  - Fats and Oils Refiners
  - Renderers
- Operation profiles underway
- Survey begins – June 2015
- Collect and analyze data for May-June 2015
- Publication date: August 3, 2015
  - Oilseed consumption
  - Fats and oils production
  - Fats and oils end of month stocks



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# Questions

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